SEQUENCE LISTING

<110> Oncoimmunin, Inc.
    Komoriya, Akira
    Packard, Beverly

<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL
SAMPLES AND METHHODS OF USE THEREOF

<130> M-903820US

<140> US 09/394,019
<141> 1999-09-10

<150> PCT/US98/00300
<151> 1998-02-20

<150> US 08/802,981
<151> 1997-02-20

<160> 257

<170> PatentIn version 3.0

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1   5   10

<210> 2
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<213> Artificial/Unknown

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1   5   10

<210> 3

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1               5                   10

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1               5                   10

<210>   5
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<400>   5

Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>   6
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Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  7
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Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  8
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Lys Asp Xaa Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  9
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<400> 9

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1   5   10

<210> 10
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1   5   10

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Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1   5   10

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<400>   12

Lys Asp Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1               5                   10                  15

<210>  13
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<400>   13

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  14
<211>  18
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<213>   Artificial/Unknown

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>   15
<211>   13
<212>   PRT
<213>   Artificial/Unknown

<220>
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1               5                   10

<210>   16
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<223>  X is epsilon amino caproic acid


<400>  16

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  17
<211>  16
<212>  PRT
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<220>
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<223>  Blocked with amide


<400>  17

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

<210>  18
<211>  19
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<223>  Residue blocked with Fmoc
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<223>  X is epsilon amino caproic acid


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<223>  X is d form tetrahydroisoquinoline-3-carboxylic acid


<400>  18

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  19
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<220>
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<400>  19

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1               5                   10                  15

Tyr


<210>  20
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<213>  artificial sequence

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<400> 20

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 21
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1   5   10   15

<210> 22
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Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 23
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Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 24
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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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1   5   10   15

Gly Tyr

<210> 26
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<400> 26

Lys Asp Xaa Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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1   5   10   15

Gly Tyr

<210> 28
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1   5   10   15

Gly Tyr

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1   5   10   15

Gly Tyr

<210> 30
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1   5   10   15

Lys Gly Tyr

<210> 31
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1   5   10   15

Gly Tyr

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1   5   10   15

Gly Tyr

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<220>
<221>   MOD_RES
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<400>   33

Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>   34
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<400>   34

Lys Asp Xaa Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>   35
<211>   18
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<223> X is alpha aminoisobutyric acid

<400> 35

Lys Asp Xaa Xaa Gly Asn Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 36
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<220>
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<400> 36

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1   5   10   15

Lys Gly Lys

<210> 37
<211> 19
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<223> X is Aib

-16-

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<223>  X is D form tetrahydroisoquinoline-3-carboxylic acid


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<220>
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<400>  37

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  38
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<400>  38

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr
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<220>
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<220>
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<400>  39

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  40
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Lys Asp Xaa Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

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1   5   10   15

Pro Lys Gly Tyr
            20

<210> 42

<211> 14
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<400> 42

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 43
<211> 14
<212> PRT
<213> artificial sequence

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<400> 43

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1   5   10

<210> 44
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<400> 44

Lys Asp Xaa Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1   5   10

<210> 45
<211> 16
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<400> 45

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1   5   10   15

<210> 46
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<213> artificial sequence

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<400> 46

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 47
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<213> artificial sequence

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<400> 47

Lys Asp Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 48
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<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (4)..(4)
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<400> 48

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 49
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<220>
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<400> 49

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 50
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<220>
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<223> X is epsilon aminocaproic acid

<220>
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<400> 50

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 51
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<400> 51

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1   5   10   15

Gly Tyr

<210> 52
<211> 18
<212> PRT
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1   5   10   15

Gly Tyr

<210> 53
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> K is blocked with Fmoc

<220>
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<223> X is episilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 53

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 54
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> K is blocked with Fmoc

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<220>
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<223> X is epsilon aminocaproic acid

<400> 54

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 55
<211> 14
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<400> 55

Lys Asp Xaa Leu Val Glu Ile Asp Asn Gly Pro Lys Gly Tyr
1   5   10

<210> 56
<211> 16
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<400> 56

Lys Asp Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Pro Lys Gly Tyr
1   5   10   15

<210> 57
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 57

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 58
<211> 18
<212> PRT
<213> artificial sequence

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<220>

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<223> X is epsilon aminocaproic acid


<400> 58

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asn Asn Gly Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210> 59
<211> 18
<212> PRT
<213> artificial sequence

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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid


<400> 59

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210> 60
<211> 16
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (12)..(12)
<223> X is episilon-aminocaproic acid

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 60

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 61
<211> 16
<212> PRT
<213> artificial sequence

<220>
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<223> K is blocked with Fmoc

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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 61

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 62
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<400> 62

Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly

Tyr

<210> 63
<211> 17
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 63

Lys Asp Xaa Gly Ile Glu Thr Asn Ser Gly Val Asp Asp Pro Lys Gly
1   5   10   15

Tyr

<210> 64
<211> 19
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 64

Lys Asp Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 65
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<222> (3)..(3)
<223> X is Aib

<400> 65

Lys Asp Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Pro Lys Gly

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        1                5                    10                   15

Tyr


<210>  66
<211>  17
<212>  PRT
<213>  artificial sequence

<220>
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<220>
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<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  66

Lys Asp Xaa Xaa Gly Ile Glu Thr Asp Ser Gly Val Xaa Pro Lys Gly
1                5                    10                   15

Tyr


<210>  67
<211>  17
<212>  PRT
<213>  artificial sequence

<220>
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<220>
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<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid
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<400>  67

Lys Asp Xaa Xaa Gly Ile Glu Thr Asn Ser Gly Val Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  68
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  68

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr                                              .


<210>  69
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
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<223>  X is Aib


<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 69

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 70
<211> 19
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 70

Lys Asp Xaa Gly Ser Glu Ser Met Asp Ser Gly Ile Ser Leu Asp Pro
1   5   10   15

Lys Gly Tyr

<210> 71
<211> 17
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 71

Lys Asp Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Pro Lys Gly
1   5   10   15

Tyr

<210> 72
<211> 19
<212> PRT
<213> artificial sequence

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<223>  X is Aib.


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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  72

Lys Asp Xaa Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  73
<211>  19
<212>  PRT
<213>  artificial sequence

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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  73

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr
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<210>  74
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
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<222>  (3)..(3)
<223>  X is Aib


<220>
<221>  MOD_RES
<222>  (15)..(15)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  74

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  75
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  M is D form


<220>
<221>  MOD_RES
<222>  (15)..(15)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
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<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  75

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  76
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
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<223>  X is Aib


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  M is D form


<220>
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  76

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  77
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
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<223> X is Aib

<220>
<221> MOD_RES
<222> (12)..(12)
<223> M is D form

<220>
<221> MOD_RES
<222> (15)..(15)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 77

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 78
<211> 18
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 78

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 79
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<222> (3)..(3)
<223> X is Aib

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 79

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 80
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<222> (3)..(3)
<223> X is Aib

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (8)..(8)
<223> V is D form

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<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  80

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Pro Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  81
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid

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<220>
<221>  MOD_RES
<222>  (8)..(8)
<223>  V is D form


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  81

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Pro Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  82
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
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<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<220>
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<223>  X is episilon-aminocaproic acid


<220>
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<222>  (12)..(12)
<223>  M is D form


<220>
<221>  MOD_RES
<222>  (7)..(7)
<223>  V is D form


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  82

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1               5                   10                  15

Lys Gly Tyr


<210>  83
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<220>
<221>  MOD_RES
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<223>  M is D form


<220>
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<223>   X is episilon-aminocaproic acid


<220>
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<220>
<221>   MOD_RES
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<223>   X is epsilon aminocaproic acid


<400>   83

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1                   5                   10                  15

Lys Gly Tyr


<210>   84
<211>   19
<212>   PRT
<213>   artificial sequence

<220>
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<222>   (3)..(3)
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<220>
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<220>
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<220>
<221>   MOD_RES
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<223>   V is D form


<220>
<221>   MOD_RES
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<223>   X is epsilon aminocaproic acid
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<400> 84

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 85
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 85

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 86
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223>  X is epsilon aminocaproic acid


<400>  86

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Gly Xaa Pro Lys
1               5                  10                 15

Gly Tyr


<210>  87
<211>  16
<212>  PRT
<213>  artificial sequence


<220>
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<222>  (3)..(3)
<223>  X is Aib


<220>
<221>  MOD_RES
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  87

Lys Asp Xaa Xaa Gly Val Cys Cys Ser Met Gly Xaa Pro Lys Gly Tyr
1               5                  10                 15

<210>  88
<211>  16
<212>  PRT
<213>  artificial sequence

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<223>  X is Aib


<220>
<221>  MOD_RES
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<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid


<400>  88

Lys Asp Xaa Xaa Gly Val Cys Asp Ser Met Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15


<210>  89
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<212>  PRT
<213>  artificial sequence

<220>
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<223>  X is Aib


<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid


<400>  89

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Ser Gln His Leu Pro
1               5                   10                  15

Lys Gly Tyr


<210>  90
<211>  19
<212>  PRT
<213>  artificial sequence

<220>
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<223>  X is Aib


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  90
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Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Pro Gln His Leu Pro
1   5   10   15

Lys Gly Tyr

<210> 91
<211> 19
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 91

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Asp Ser Gln His Leu Pro
1   5   10   15

Lys Gly Tyr

<210> 92
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 92

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 93

<211> 18
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 93

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 94
<211> 18
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 94

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 95
<211> 19
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
<221> MOD_RES
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<223> X is epsilon aminocaproic acid

<400> 95

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 96
<211> 19
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 96

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 97
<211> 19
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 97

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 98
<211> 20
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 98

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 99
<211> 20
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 99

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 100
<211> 20
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (16)..(16)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 100

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 101
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

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<220>
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<222>  (13)..(13)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  101

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  102
<211>  17
<212>  PRT
<213>  artificial sequence

<220>
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<220>
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<222>  (13)..(13)
<223>  X is episilon-aminocaproic acid


<220>
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<222>  (7)..(7)
<223>  M is D form


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  102

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr
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<210> 103
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is episilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 103

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 104
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is episilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 104

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly

1				5					10					15

Tyr

<210> 105
<211> 16
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is epsilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 105

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 106
<211> 17
<212> PRT
<213> artificial sequence

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<223> X is Aib

<220>
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<223> X is epsilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 106

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Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>   107
<211>   17
<212>   PRT
<213>   artificial sequence

<220>
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<220>
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<220>
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<222>   (7)..(7)
<223>   M is D form


<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid


<400>   107

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>   108
<211>   8
<212>   PRT
<213>   artificial sequence

<220>
<221>   MOD_RES
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<223>   X is epsilon aminocaproic acid


<220>
<221>   MOD_RES
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<222> (1)..(1)
<223> K is blocked with Fmoc

<400> 108

Lys Asp Pro Xaa Thr Gly Arg Thr
1   5

<210> 109
<211> 11
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D is blocked with Fmoc

<400> 109

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 110
<211> 15
<212> PRT
<213> artificial sequence

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<223> K is blocked with Fmoc

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<400> 110

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 111
<211> 13
<212> PRT
<213> artificial sequence

<220>
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<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (9)..(9)
<223> X is episilon-aminocaproic acid

<400> 111

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210> 112
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<223> K is blocked with Fmoc

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
<222> (11)..(11)
<223> X is episilon-aminocaproic acid

<400> 112

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 113
<211> 14
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 113

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 114
<211> 13
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<400> 114

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 115
<211> 14
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> X is episilon-aminocaproic acid

<400> 115

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210> 116
<211> 13
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is 4-aminobutyric acid

<400> 116

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr

<210> 117
<211> 13
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is 8-aminobutyric acid

<400> 117

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 118
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 118

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 119
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<220>
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<223> M is D form

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 119

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 120
<211> 17
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

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<210>  121
<211>  17
<212>  PRT
<213>  artificial sequence

<220>
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<223>  X is Aib


<220>
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<223>  X is episilon-aminocaproic acid


<220>
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<223>  M is D form


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  121

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  122
<211>  26
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<220>
<221>  MOD_RES
<222>  (22)..(22)
<223>  X is epsilon aminocaproic acid
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<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<400>  122

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
 1               5                   10                  15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
            20                  25

<210>  123
<211>  20
<212>  PRT
<213>  artificial sequence

<220>
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<223>  K is blocked with Fmoc


<220>
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<222>  (16)..(16)
<223>  X is episilon-aminocaproic acid


<220>
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<223>  E is D form


<220>
<221>  MOD_RES
<222>  (10)..(10)
<223>  L is D form


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  F is D form


<220>
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<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  123
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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210>   124
<211>   20
<212>   PRT
<213>   artificial sequence

<220>
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<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
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<220>
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<220>
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<222>   (10)..(10)
<223>   L is D form

<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   F is D form

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<400>   124

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210>   125
<211>   21

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<212>   PRT
<213>   artificial sequence

<220>
<221>   MOD_RES
<222>   (3)..(3)
<223>   X is Aib


<220>
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<220>
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<223>   K is blocked with Fmoc


<220>
<221>   MOD_RES
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<223>   X is epsilon aminocaproic acid


<400>   125

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15

Pro Lys Asp Asp Tyr
            20

<210>   126
<211>   21
<212>   PRT
<213>   artificial sequence

<220>
<221>   MOD_RES
<222>   (3)..(3)
<223>   X is Aib


<220>
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<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid
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<400> 126

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 127
<211> 21
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 127

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 128
<211> 21
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is episilon-aminocaproic acid

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 128

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 129
<211> 21
<212> PRT
<213> artificial sequence

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<220>
<221> MOD_RES
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<223> X is epsilon aminocaproic acid

<400> 129

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Asp Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 130
<211> 23
<212> PRT
<213> artificial sequence

<220>
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<220>

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<223> X is episilon-aminocaproic acid

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 130

Lys Asp Xaa Xaa Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr
1   5   10   15

Gly Xaa Pro Lys Asp Asp Tyr
            20

<210> 131
<211> 24
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<222> (19)..(19)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 131

Lys Asp Xaa Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1   5   10   15

Thr Gly Xaa Pro Lys Asp Asp Tyr
            20

<210> 132
<211> 18
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES

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<222>  (3)..(3)
<223>  X is Aib


<220>
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  132

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1               5                   10                  15

Asp Tyr


<210>  133
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
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<220>
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  133

Lys Asp Xaa Xaa Asx Tyr Gly Val Val Ile Ala Gly Xaa Pro Lys Asp
1               5                   10                  15

Asp Tyr


<210>  134
<211>  15
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<212> PRT
<213> artificial sequence

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<220>
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<223> X is epsilon-aminocaproic acid

<220>
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<222> (4)..(5)
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<400> 134

Lys Asp Xaa Xaa Xaa Gln Gln Leu Leu His Asn Xaa Xaa Pro Lys
1   5   10   15

<210> 135
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<220>
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<223> X is epsilon aminocaproic acid

<400> 135

Lys Asp Xaa Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1   5   10   15

<210> 136
<211> 13
<212> PRT

<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 136

Lys Asp Xaa Gly Gln Gln Leu Leu His Asn Gly Pro Lys
1   5   10

<210> 137
<211> 11
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 137

Lys Asp Xaa Gln Gln Leu Leu His Asn Pro Lys
1   5   10

<210> 138
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<223> X is episilon-aminocaproic acid

<220>
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<223> X is epsilon aminocaproic acid

<400> 138

Lys Asp Xaa Xaa Xaa Ser Ile Gln Tyr Thr Tyr Xaa Xaa Pro Lys
1   5   10   15

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<210>  139
<211>  15
<212>  PRT
<213>  artificial sequence

<220>
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<220>
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<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid


<400>  139

Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
1               5                   10                  15

<210>  140
<211>  13
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<400>  140

Lys Asp Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1               5                   10

<210>  141
<211>  11
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is Aib


<400>  141
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Lys Asp Xaa Ser Ile Gln Tyr Thr Tyr Pro Lys
1   5   10

<210> 142
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<223> X is episilon-aminocaproic acid

<220>
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<222> (4)..(5)
<223> X is epsilon aminocaproic acid

<400> 142

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1   5   10   15

<210> 143
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<223> X is Aib

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 143

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys

<210> 144
<211> 13
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 144

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1   5   10

<210> 145
<211> 11
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 145

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1   5   10

<210> 146
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<220>
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<400> 146

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys
1   5   10   15

<210> 147
<211> 15
<212> PRT
<213> artificial sequence

<220>
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<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 147

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1   5   10   15

<210> 148
<211> 13
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)
<223> X is Aib

<400> 148

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1   5   10

<210> 149
<211> 11
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (3)..(3)

<223> X is Aib

<400> 149

Lys Asp Xaa Ser Ser Ile Tyr Ser Gln Pro Lys
1   5   10

<210> 150
<211> 20
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<400> 150

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 151
<211> 18
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>

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<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  151

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  152
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  152

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  153
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmco


<220>
<221>  MOD_RES
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<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  153

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  154
<211>  15
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (11)..(11)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  154

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15

<210>  155
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc
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<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  155

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1                5                    10                  15

Gly Tyr


<210>  156
<211>  14
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  156

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1                5                    10

<210>  157
<211>  16
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  X is episilon-aminocaproic acid
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<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 157

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 158
<211> 18
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<400> 158

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 159
<211> 19
<212> PRT
<213> artificial sequence

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES

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<222>  (15)..(15)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  159

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1                5                   10                  15

Lys Gly Tyr


<210>  160
<211>  18
<212>  PRT
<213>  artificial sequence

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fa


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is epsilon aminocaproic acid


<400>  160

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1                5                   10                  15

Gly Tyr


<210>  161
<211>  17
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(17)
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<223> Spacer

<400> 161

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys Lys Glu Asp Gly Gly Asp
1   5   10   15

Lys

<210> 162
<211> 8
<212> PRT
<213> Artibeus anderseni

<220>
<221> Artificial
<222> (1)..(8)
<223> Spacer

<400> 162

Asp Gly Ser Gly Gly Asp Glu Lys
1   5

<210> 163
<211> 9
<212> PRT
<213> Artificial/Unknown

<220>
<221> Artificial
<222> (1)..(9)
<223> Spacer

<400> 163

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1   5

<210> 164
<211> 9
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (5)..(5)
<223> X is norleucine

<400> 164

Asp Ala Ile Pro Xaa Ser Ile Pro Cys

<210> 165
<211> 11
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (5)..(5)
<223> X is norleucine

<400> 165

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1   5   10

<210> 166
<211> 11
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> Artificial sequence = synthetic protease indicator

<220>
<221> MOD_RES
<222> (9)..(9)
<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D is derivatized with fluorophore

<400> 166

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 167
<211> 12
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> Artificial Sequence is synthetic protease indicator

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<220>
<221>  MOD_RES
<222> · (1)..(1)
<223>  P is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (10)..(10)
<223>  K is derivatized with fluorophore


<400>  167

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  168
<211>  12
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial sequence = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (6)..(6)
<223>  X is norleucine (Nlu)


<220>
<221>  MOD_RES
<222>  (10)..(10)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<400>  168

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1               5                   10
```

```
<210>  169
<211>  12
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial sequence = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (10)..(10)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (6)..(6)
<223>  X is norleucine (Nlu)


<400>  169

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1                   5                   10

<210>  170
<211>  11
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial Sequence = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  D is blocked wiht Fmoc


<220>
<221>  MOD_RES
<222>  (5)..(5)
<223>  X is norleucine (Nlu)
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<220>
<221>  MOD_RES
<222>  (9)..(9)
<223>  K is derivatized with fluorophore


<400>  170

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1               5                   10

<210>  171
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  K is derivatized with fluorophore


<400>  171

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  172
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
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<221>  misc_feature
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  misc_feature
<222>  (12)..(12)
<223>  K is derivatized with fluorophore


<400>  172

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  173
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluroophore


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  K is derivatized with fluroophore


<400>  173

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  174
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
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<222>   ()..()
<223>   ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>   misc_feature
<222>   (1)..(1)
<223>   K is derivatized with fluorophore


<220>
<221>   misc_feature
<222>   (12)..(12)
<223>   K is derivatized with fluorophore


<400>   174

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1                   5                   10

<210>   175
<211>   13
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   misc_feature
<222>   ()..()
<223>   ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is blocked with Fmoc


<220>
<221>   MOD_RES
<222>   (11)..(11)
<223>   K is derivatized with fluorophore


<400>   175

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1                   5                   10

<210>   176
<211>   13
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   misc_feature
<222>   ()..()
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<223>   ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (11)..(11)
<223>   K is derivatized with fluorophore

<400>   176

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210>   177
<211>   16
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   misc_feature
<222>   ()..()
<223>   ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   K is derivatized with fluorophore

<400>   177

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1   5   10   15

<210>   178
<211>   18
<212>   PRT

<210> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
<222> (16)..(16)
<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon aminocaproic acid

<400> 178

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 179
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is derivatized with benzyloxycarbonyl group

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<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon aminocaproic acid


<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with  fluorophore


<220>
<221>  MOD_RES
<222>  (16)..(16)
<223>  K is derivatized with  fluorophore


<400>  179

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1                   5                   10                  15

Gly Tyr


<210>  180
<211>  13
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
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<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (11)..(11)
<223>  K is derivatized with fluorophore



<400>  180

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  181
<211>  13
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  ARTIFICIAL/UNKNOWN = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (11)..(11)
<223>  K is derivatized with fluorophore



<400>  181

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10

<210>  182
<211>  12
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
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<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (10)..(10)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (6)..(6)
<223>   X is norleucine (Nlu)

<400>   182

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1   5   10

<210>   183
<211>   18
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   misc_feature
<222>   ()..()
<223>   Artificial/Unknown = synthetic protease indicator

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (16)..(16)
<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES

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<222>  (4)..(4)
<223>  X is episilon aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon aminocaproic acid


<400>  183

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1                   5                   10                  15

Gly Tyr


<210>  184
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (16)..(16)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilonaminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilonaminocaproic acid
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<400> 184

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 185
<211> 14
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> Artificial/Unknown = synthetic protease indicator

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is derivatized with a fluorophore

<220>
<221> MOD_RES
<222> (12)..(12)
<223> K is derivatized with a fluorophore

<400> 185

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 186
<211> 8
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> Artificial/Unknown = central protease recognition domain

<400> 186

Gly Asp Glu Val Asp Gly Ile Asp
1   5

<210> 187
<211> 4
<212> PRT

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<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = tetrapeptide core


<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is alpha aminobutyric acid (Aib)


<400>  187

Lys Asp Xaa Gly
1

<210>  188
<211>  5
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = pentapeptide core


<220>
<221>  MOD_RES
<222>  (3)..(3)
<223>  X is alpha aminobutyric acid (Aib)


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilonaminocaproic acid


<400>  188

Lys Asp Xaa Xaa Gly
1               5

<210>  189
<211>  4
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = CDR domain
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<220>
<221>  MOD_RES
<222>  (2)..(2)
<223>  X is alpha episilonaminocaproic acid


<400>  189

Gly Xaa Pro Lys
1


<210>  190
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = synthetic protease indicator


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  K is derivatized with fluorophore


<400>  190

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1                   5                   10

<210>  191
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = synthetic protease indicator
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<220>
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<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is derivatized with fluorophore


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  K is derivatized with fluorophore


<400>  191

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10


<210>  192
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  misc_feature
<222>  ()..()
<223>  Artificial/Unknown = synthetic protease indicator


<220>
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<223>  K is blocked with Fmoc


<220>
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<223>  K is derivatized with fluorophore


<220>
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<222>  (16)..(16)
<223>  K is derivatized with fluorophore


<220>
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<223>  X is episilonaminocaproic acid
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<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilonaminocaproic acid


<400>  192

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1                5                   10                  15

Gly Tyr


<210>  193
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
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<222>  (1)..(7)
<223>  Artificial synthethic protease substrate


<400>  193

Asp Glu Val Asp Gly Ile Asn
1                5

<210>  194
<211>  8
<212>  PRT
<213>  Artificial/Unknown

<220>
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<222>  (1)..(1)
<223>  X is D form of tetrahydroisoquinoline-3-carboxylic acid


<400>  194

Xaa Asp Glu Val Asp Gly Ile Asn
1                5

<210>  195
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate
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<400> 195

Asp Glu Val Asp Gly Ile Asp
1   5

<210>   196
<211>   7
<212>   PRT
<213>   Artificial/Unknown

<220>
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<223>   Artificial protease substrate

<400>   196

Leu Val Glu Ile Asp Asn Gly
1   5

<210>   197
<211>   8
<212>   PRT
<213>   Artificial/Unknown

<220>
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<223>   Artificial protease substrate

<400>   197

Gly Ile Glu Thr Glu Ser Gly Val
1   5

<210>   198
<211>   4
<212>   PRT
<213>   Artificial/Unknown

<220>
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<222>   (1)..(4)
<223>   Artificial protease substrate

<400>   198

Thr Gly Arg Thr
1

<210>   199
<211>   6
<212>   PRT

<213> Artificial/Unknown

<220>
<221> Artificial
<222> (1)..(6)
<223> Artificial protease substrate

<400> 199

Val Met Thr Gly Arg Thr
1   5

<210> 200
<211> 9
<212> PRT
<213> Artificial/Unknown

<220>
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<400> 200

Ser Glu Val Lys Leu Asp Ala Glu Phe
1   5

<210> 201
<211> 9
<212> PRT
<213> Artificial/Unknown

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<223> E is D form

<220>
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<223> L is D form

<220>
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<223> L is D form

<400> 201

Ser Glu Val Lys Leu Asp Ala Glu Phe
1   5

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<210>  202
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
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<222>  (1)..(7)
<223>  Artificial peptide substrate


<400>  202

Glu Asp Val Val Cys Cys Ser
1               5

<210>  203
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate


<400>  203

Glu Glu Val Glu Gly Ile Asn
1               5

<210>  204
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (2)..(2)
<223>  F is D form


<400>  204

Asp Phe Val Asp Gly Ile Asn
1               5

<210>  205
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
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<222>  (1)..(1)
<223>  D is D form
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<220>
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<222>  (4)..(4)
<223>  D is D form


<400>  205

Asp Glu Val Asp Gly Ile Asn
1                   5


<210>  206
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate


<400>  206

Leu Val Glu Ile Glu Asn Gly
1                   5


<210>  207
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate


<400>  207

Gly Ile Glu Thr Asp Ser Gly
1                   5


<210>  208
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate


<400>  208
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Gly Ile Glu Thr Glu Ser Gly
1   5

<210>   209
<211>   7
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   Artificial
<222>   (1)..(7)
<223>   Artificial protease substrate

<400>   209

Leu Glu His Asp Gly Ile Asn
1   5

<210>   210
<211>   7
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   Artificial
<222>   (1)..(7)
<223>   Artificial protease substrate

<400>   210

Leu Glu Thr Asp Gly Ile Asn
1   5

<210>   211
<211>   7
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   Artificial
<222>   (1)..(7)
<223>   Artificial protease substrate

<400>   211

Trp Glu His Asp Gly Ile Asn
1   5

<210>   212
<211>   5
<212>   PRT
<213>   Artificial/Unknown

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<220>
<221>  Artificial
<222>  (1)..(5)
<223>  Artificial protease substrate


<400>  212

Tyr Val His Asp Gly
1                   5


<210>  213
<211>  7
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(7)
<223>  Artificial protease substrate


<400>  213

Tyr Val His Asp Gly Ile Asn
1                   5


<210>  214
<211>  5
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(5)
<223>  Artificial protease substrate


<400>  214

Tyr Val His Asp Ala
1                   5


<210>  215
<211>  5
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  Artificial
<222>  (1)..(5)
<223>  Artificial protease substrate


<400>  215

Thr Gly Arg Thr Gly
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<210> 216
<211> 9
<212> PRT
<213> Artificial/Unknown

<220>
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<223> E is D form

<220>
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<222> (9)..(9)
<223> F is D form

<220>
<221> MOD_RES
<222> (5)..(5)
<223> L is D form

<400> 216

Ser Glu Val Lys Leu Asp Ala Glu Phe
1   5

<210> 217
<211> 5
<212> PRT
<213> Artificial/Unknown

<220>
<221> Artificial
<222> (1)..(5)
<223> Artificial protease substrate

<400> 217

Ile Glu Pro Asp Ser
1   5

<210> 218
<211> 7
<212> PRT
<213> Artificial/Unknown

<220>
<221> Artificial
<222> (1)..(5)
<223> Artificial protease substrate

<400> 218

Pro Leu Gly Ile Ala Gly Ile
1   5

<210> 219
<211> 8
<212> PRT
<213> Artificial/Unknown

<220>
<221> Artificial
<222> (1)..(8)
<223> Artificial protease substrate

<400> 219

Ser Gln Asn Tyr Pro Ile Val Gln
1   5

<210> 220
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
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<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<400> 220

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 221
<211> 16
<212> PRT
<213> Artificial/Unknown

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<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (16)..(16)
<223>  K is blocked with amide


<400>  221

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

<210>  222
<211>  19
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (6)..(6)
<223>  X is D form tetrahydroisoquinoline-3-carboxylic acid


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (15)..(15)
<223>  X is episilon-aminocaproic acid
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<400> 222

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 223
<211> 17
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<400> 223

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1   5   10   15

Tyr

<210> 224
<211> 17
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<400> 224

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 225
<211> 16
<212> PRT
<213> Artibeus anderseni

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
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<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> K is blocked with amide

<400> 225

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

<210> 226
<211> 17
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

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<400>  226

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  227
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<400>  227

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  228
<211>  13
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid
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<400>  228

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10

<210>  229
<211>  11
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  D is blocked with Fmoc


<400>  229

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10

<210>  230
<211>  15
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
<222>  (11)..(11)
<223>  X is episilon-aminocaproic acid


<400>  230

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15

<210>  231
<211>  13
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  K is blocked with Fmoc


<220>
<221>  MOD_RES
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<222>   (9)..(9)
<223>   X is episilon-aminocaproic acid

<400>   231

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210>   232
<211>   15
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid

<220>
<221>   MOD_RES
<222>   (11)..(11)
<223>   X is episilon-aminocaproic acid

<400>   232

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210>   233
<211>   14
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid

<400>   233

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr

<210> 234
<211> 13
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<400> 234

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 235
<211> 20
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
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<223> K is blocked with Fmoc

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (16)..(16)
<223> X is episilon-aminocaproic acid

<400> 235

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 236
<211> 21
<212> PRT
<213> Artificial/Unknown

<220>
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<223> K is blocked with Fmoc

<220>
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<222> (14)..(14)
<223> F is D form

<220>
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<223> L is D form

<220>
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<222> (7)..(7)
<223> E is D form

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<400> 236

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Cys
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 237
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fa

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<400> 237

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 238
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<400> 238

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 239
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (7)..(7)
<223> F is D form

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<400> 239

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 240
<211> 18
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (14)..(14)
<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
<222> (6)..(6)
<223> D is D form

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D is D form

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<400> 240

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 241
<211> 17
<212> PRT
<213> Artificial/Unknown

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is episilon-aminocaproic acid

<220>

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<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<400>  241

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  242
<211>  16
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  X is episilon-aminocaproic acid


<400>  242

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15

<210>  243
<211>  16
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (12)..(12)
<223>  X is episilon-aminocaproic acid


<400>  243

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15
```

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<210>  244
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
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<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<400>  244

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  245
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<400>  245

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  246
<211>  18
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
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<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is episilon-aminocaproic acid


<400>   246

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10              15

Gly Tyr


<210>·  247
<211>   15
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (11)..(11)
<223>   X is episilon-aminocaproic acid


<400>   247

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1               5                   10              15

<210>   248
<211>   18
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is episilon-aminocaproic acid
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<400>  248

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>  249
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<400>  249

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1               5                   10

<210>  250
<211>  14
<212>  PRT
<213>  Artificial/Unknown

<220>
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<222>  (4)..(4)
<223>  X is episilon-aminocaproic acid


<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid


<400>  250

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1               5                   10

<210>  251
<211>  13
<212>  PRT
<213>  Artificial/Unknown

<220>
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<223>  4-aminobutyric acid
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<400>  251

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10

<210>  252
<211>  13
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<213>  Artificial/Unknown

<220>
<221>  MOD_RES
<222>  (4)..(4)
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<400>  252

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10

<210>  253
<211>  20
<212>  PRT
<213>  Artificial/Unknown

<220>
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<220>
<221>  MOD_RES
<222>  (16)..(16)
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<220>
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<223>  F is D form


<220>
<221>  MOD_RES
<222>  (7)..(7)
<223>  E is D form


<220>
<221>  MOD_RES
<222>  (10)..(10)
<223>  L is D form


<400>  253
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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15

Pro Lys Gly Tyr
            20

<210>   254
<211>   16
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (12)..(12)
<223>   X is episilon-aminocaproic acid


<400>   254

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15

<210>   255
<211>   18
<212>   PRT
<213>   Artificial/Unknown

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid


<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is episilon-aminocaproic acid


<400>   255

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1               5                   10                  15

Gly Tyr


<210>   256
<211>   19
<212>   PRT
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<213> Artificial/Unknown

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<400> 256

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 257
<211> 4
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
<222> ()..()
<223> Artificial/Unknown = protease binding domain

<400> 257

Gly Gly Gly Gly
1